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STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

3100 Port of Benton Blvd • Richland, WA 99354 • (509) 372-7950

November 28, 2007

Ms. Shirley J. Olinger, Manager  
Office of River Protection  
United States Department of Energy  
P.O. Box 450, MSIN: H6-60  
Richland, Washington 99352

Mr. William S. Elkins, Project Director  
Bechtel National, Inc.  
2435 Stevens Center Place, MSIN: H4-02  
Richland, Washington 99354

RECEIVED  
NOV 30 2007  
EDMC

Re: Submittal of Hanford Facility RCRA Permit Modification Notification Form  
24590-HLW-PCN-ENV-06-014; Class 1 Modification to the Hanford Facility Dangerous  
Waste and Resource Conservation and Recovery Act (RCRA) Permit for the Treatment,  
Storage, and Disposal of Dangerous Waste, Part III, Operating Unit 10  
(Waste Treatment and Immobilization Plant), WA7890008967

Dear Ms. Olinger and Mr. Elkins:

The Department of Ecology approves the referenced Class 1 Modification submitted  
October 18, 2007. The approved Hanford Facility RCRA Permit Modification Notification Form  
is enclosed.

Modification 24590-HLW-PCN-ENV-06-014 provides the updated Process Flow Diagram  
(24590-HLW-M5-V17T-P0001, Revision 4) for the High-Level Waste Receipt and Feed  
Preparation Systems.

The parties agree that during the transition period from permit drawings to engineering source  
drawings, items not requiring an installation inspection or inclusion in the Independent Qualified  
Registered Professional Engineer report may be shown in phantom. Ecology is approving the  
design changes identified in the Permittees' submittal. However, decisions regarding the  
regulation of items shown in phantom will be made at a later date. At the end of the transition  
period, permit submittals will contain engineering source documents and will be incorporated into  
the permit as described in Ecology Publication # 07-05-006 ([www.ecy.wa.gov/biblio/nwp.html](http://www.ecy.wa.gov/biblio/nwp.html)).



Ms. Olinger and Mr. Elkins  
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If there are any questions, contact me at 509-372-7882 or David Becker at 509-372-7990.

Sincerely,



Brenda Becker-Khaleel  
WTP Permit Writer  
Nuclear Waste Program

trw/jc  
Enclosure

cc electronic w/enc:

Dave Bartus, EPA  
John Eschenberg, USDOE  
Lori Huffman, USDOE  
Tony McKarns, USDOE  
Gae Neath, USDOE  
Don Sommer, USDOE  
William Taylor, USDOE  
Julie Colby, BNI  
Brad Erlandson, BNI  
Peggy Fisher, BNI  
Stan Hill, BNI  
Dennis Klein, BNI  
Sandi Murdock, BNI  
Phil Peistrup, WGI

cc w/enc:

Administrative Record: Tank Waste Treatment Requirements ✓  
Hanford Operating Record General File  
Environmental Portal  
USDOE-ORP Correspondence Control

*H-0-8*

Quarter Ending September 30,  
2007

24590-HLW-PCN-ENV-06-014

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**Hanford Facility RCRA Permit Modification Notification Form****Part III, Operating Unit 10****Waste Treatment and Immobilization Plant**

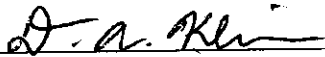
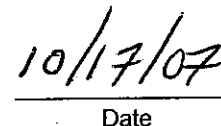
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## Index

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Update HLW Vitrification Process Flow Diagram HLW Receipt & Feed Preparation (System HCP, GFR, &  
HFP) in Appendix 10.1 of the Dangerous Waste Permit

Submitted by Co-Operator:

Reviewed by ORP Program Office:

  
D. A. Klein  
Date  
S. J. Olinger  
Date

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<sup>1</sup> Class 1 modifications requiring prior Agency approval.

<sup>2</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to a Class '1, if applicable.

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### Hanford Facility RCRA Permit Modification Notification Form

Unit:

**Waste Treatment and Immobilization Plant**

Permit Part & Chapter:

**Part III, Operating Unit 10**

#### Description of Modification:

The purpose of this Class 1 modification is to update the HLW Vitrification *Process Flow Diagram HLW Receipt & Feed Preparation (System HCP, GFR, & HFP)* in Appendix 10.1 of the Dangerous Waste Permit. The following permit Process Flow Diagram is submitted to replace the Diagram currently in Appendix 10.1.

#### Appendix 10.1

Replace:	24590-HLW-M5-V17T-P0001, Rev. 3	With:	24590-HLW-M5-V17T-P0001, Rev. 4
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The referenced Process Flow Diagram incorporates changes provided in applicable document change forms (DCNs) and changes associated with the resolution to comments on DCNs since the issuance of the last revision of the permitted drawing. This modification requests Ecology approval and incorporation into the permit, the specific changes to the Process Flow Diagram that is indicated by note 24, clouds, and revision triangles. Revisions are the result of ongoing design changes. The following identifies the significant types of changes on the attached drawings.

#### 24590-HLW-M5-V17T-P0001

- Deleted Hold 3
- Added, revised and changed notes, holds and, references
- Deleted product system design: Glass Formers Reagent System (GFR) mechanical handling equipment items [Agglomeration Equipment for HLW Melter 1 and 2 (GFR-MHAN-00004 and GFR-MHAN-00005)]
- Revised, GFR tanks (product systems) and connection inlet
- Revised Pretreatment off-sheet connection points and text
- Added note 17
- Deleted Plant Wash and Disposal to overflows, Instrument Service Air to vessels and Anti-foam Reagent to vessels connections
- Changed Note 19 in vessels to Note 10


The following is a list of outstanding change documents that have not been incorporated into this modification:  
None

<sup>1</sup> Class 1 modifications requiring prior Agency approval.

<sup>2</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to a Class '1, if applicable.

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WAC 173-303-830 Modification Class: <sup>1 2</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please mark the Modification Class:	X			
<p>Enter Relevant WAC 173-303-830, Appendix I Modification citation number: A.1 and A.3</p> <p>Enter wording of WAC 173-303-830, Appendix I Modification citation:</p> <p>A.1 - Administrative and informational changes.</p> <p>A.3 - Equipment replacement or upgrading with functionally equivalent components (e.g., pipes, valves, pumps, conveyors, controls).</p> <p>In accordance with WAC 173-303-830(4)(d)(i), this modification notification is requested to be reviewed and approved as a Class 1 modification. WAC 173-303-830(4)(d)(ii)(A) states, "Class 1 modifications apply to minor changes that keep the permit current with routine changes to facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the director may require prior approval."</p>				
<p>Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial)</p> <p>Reason for denial:</p>		<p>Reviewed by Ecology:</p> <p> 12/28/07</p> <p>B. Becker-Khaleel Date</p>		

<sup>1</sup> Class 1 modifications requiring prior Agency approval.

<sup>2</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to a Class '1, if applicable.